

SHARP®

DVD Video Player

MODEL

DV-SV90S(B)

OPERATION MANUAL



The region number for this DVD player is 2.

Please read this Operation Manual carefully before using your DVD Video Player.



SAFETY INFORMATION

This apparatus complies with the requirements of Council Directives 89/336/EEC and 73/23/EEC as amended by Council Directive 93/68/EEC.

Dieses Gerät entspricht den Anforderungen der EG-Richtlinien 89/336/EWG und 73/23/EWG mit Änderung 93/68/EWG.

Ce matériel répond aux exigences contenues dans les directives 89/336/CEE et 73/23/CEE modifiées par la directive 93/68/CEE.

Dit apparaat voldoet aan de eisen van de richtlijnen 89/336/EEG en 73/23/EEG, gewijzigd door 93/68/EEG.

Dette udstyr overholder kravene i direktiv nr. 89/336/EEC og 73/23/EEC med tilkæg nr. 93/68/EEC.

Quest' apparecchio è conforme ai requisiti delle direttive 89/336/EEC e 73/23/EEC, come emendata dalla direttiva 93/68/EEC.

Αυτή η συσκευή συμμορφώνεται με τις απαιτήσεις των οδηγιών του Συμβουλίου 89/336/ΕΟΚ και 73/23/ΕΟΚ όπως τροποποιήθηκαν από την οδηγία του Συμβουλίου 93/68/ΕΟΚ.

Este equipamento obedece às exigências das directivas 89/336/CEE e 73/23/CEE, na sua versão corrigida pela directiva 93/68/CEE.

Este aparato satisface las exigencias de las Directivas 89/336/CEE y 73/23/CEE, modificadas por medio de la 93/68/CEE.

Denna utrustning uppfyller kraven enligt riktlinjerna 89/336/EEC och 73/23/EEC så som kompletteras av 93/68/EEC.

Dette produktet oppfyller betingelsene i direktivene 89/336/EEC og 73/23/EEC i endringen 93/68/EEC.

Tämä laite täyttää direktiivien 89/336/EEC ja 73/23/EEC vaatimukset, joita on muutettu direktiivillä 93/68/EEC.

Bu cihaz Konsey Direktifi 93/68/EEC tarafından düzenlenen 89/336/EEC ve 73/23/EEC Konsey Direktiflerinin gerekliliklerine uygundur.

Tento přístroj je v souladu s požadavky směrnice rady 89/336/EEC a 73/23/EEC, tak jak byly upraveny směrnicí rady 93/68/EEC.

See seade on vastavuses Nõukogu Direktiivis nr 89/336/EEC ja 73/23/EEC esitatud nõuetega, vastavalt Nõukogu Direktiivis nr 93/68/EEC esitatud parandustele.

Ez a készülék megfelel a Tanács által kiadott, 89/336/EGK és 73/23/EGK Irányelveknek és az utóbbi módosító 93/68/EGK Irányelvnek.

Ši ierīce atbilst tehnikam prasībām pēc 89/336/EEC un 73/23/EEC direktīvam papildināts ar direktīvu 93/68/EEC.

Šis prietaisas atitinka ES Tarybos direktyvų 89/336/EEC ir 73/23/EEC patikslintos direktyvos 93/68/EEC reikalavimus.

To urządzenie spełnia wymagania dyrektyw 89/336/EEC i 73/23/EEC wraz z poprawkami dyrektyw 93/68/EEC.

Tento přístroj je v súlade s požiadavkami smernice rady 89/336/EEC a 73/23/EEC tak ako boli upravené smernicou rady 93/68/EEC.

Ta aparat je v skladu z zahtevami Direktiv Sveta 89/336/EEC in 73/23/EEC kot je navedeno v dopolnili k Direktivi Sveta 93/68/EEC.

Note:

This Player can be used only where the power supply is AC 220V-240V, 50Hz. It cannot be used elsewhere.

CAUTION:

USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

AS THE LASER BEAM USED IN THIS PLAYER IS HARMFUL TO THE EYES, DO NOT ATTEMPT TO DISASSEMBLE THE CABINET. REFER SERVICING TO QUALIFIED PERSONNEL ONLY.

WARNING:

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE.

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, AND ANNOYING INTERFERENCE, USE THE RECOMMENDED ACCESSORIES ONLY.

Laser Diode Properties

Material: GaAs

Wave length: DVD: 650 nm

CD: 740 nm

Emission Duration: Continuous

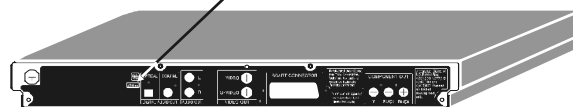
Laser output: Max. 0.5 mW

Power Cord Protection

To avoid any malfunctions of the Player, and to protect against electric shock, fire or personal injury, please observe the following.

- Hold the plug firmly when connecting or disconnecting the AC power cord.
- Keep the AC power cord away from heating appliances.
- Never put any heavy object on the AC power cord.
- Do not attempt to repair or reconstruct the AC power cord in any way.
- This Player is classified as a CLASS 1 LASER product.
- The CLASS 1 LASER PRODUCT label is located on the rear cover.
- This product contains a low power laser device. To ensure continued safety do not remove any cover or attempt to gain access to the inside of the product. Refer all servicing to qualified personnel.

CLASS 1
LASER PRODUCT



SAFETY INFORMATION

Location and Handling

- Do not cover or place the player in enclosed spaces to prevent excessive temperature build up.
- Do not place the Player in direct sunlight, or near heat sources.
- Keep the Player away from strong magnetic objects.
- Do not place any object containing water or other liquids on the Player. In the event that liquid should enter the cabinet, unplug the Player immediately and contact the retailer or service centre approved by SHARP immediately.
- Do not remove the Player cabinet. Touching parts inside the cabinet could result in electric shock and/ or damage to the Player. For service and adjustment inside the cabinet, call a qualified dealer or service centre approved by SHARP.

Non use Periods

When the Player is not being used, switch the Player to the Standby mode.

When left unused for a long period of time, the Player should be unplugged from the household AC outlet.

No Fingers or Other Objects Inside

Do not put any foreign object on the disc tray.

Stacking

Place the Player in a horizontal position, and do not place anything heavy on it.

Condensation

Moisture may form on the pickup lens in the following conditions:

- immediately after a heater has been turned on.
- in a steamy or very humid room.
- when the Player is suddenly moved from a cold environment to a warm one.

If moisture forms inside this Player, it may not operate properly. In this case, turn on the power and wait about one hour for the moisture to evaporate.

Cleaning

Unplug your Player before cleaning. Use a damp cloth for cleaning. Do not use cleaning fluids or aerosols which could enter the Player and cause damage, fire, or electrical shock. These substances may also deteriorate the finish of your Player.

If there is Noise Interference on the TV While a Broadcast is being Received

Depending on the reception condition of the TV, interference may appear on the TV monitor while you watch a TV broadcast and the Player is left on. This is not a malfunction of the Player or the TV. To watch a TV broadcast, turn off the Player.

Service

Do not attempt to service this Player yourself. Please refer any service to the nearest service centre approved by SHARP.

Copyright

Audio-visual material may consist of copyrighted works which must not be recorded without the authority of the owner of the copyright. Please refer to relevant laws in your country.

Copy Protection

This Player supports Macrovision copy protection. On DVDs that include a copy protection code, if the contents of the DVD are copied using a VCR, the copy protection code prevents the videotape copy from playing normally.

Apparatus Claims of U.S. Patent Nos. 4,631,603, 4,577,216, 4,819,098 and 4,907,093 licensed for limited viewing uses only.

This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

Recommended Measures for Optimum Picture Excellence

The Player is a precision device that is constructed using extremely accurate technology.

Soiling or friction affecting the pickup lens or disc drive can impair the image quality. At the worst, neither video nor audio will be played back. Contact your authorized Sharp supplier for details.

Do not attempt to clean the pickup lens yourself.

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ABOUT THIS MANUAL

Instructions in this manual describe the controls on the player. You can also use the controls on the remote if they have the same or similar names as those on the player.

Dear Customers

We would like to thank you for purchasing this DVD/VCD/S-VCD/AUDIO CD/CD-R/CD-RW/MP3/JPEG/MPEG-4/DivX[®] player.

We strongly recommend that you carefully study the operating instructions before attempting to operate the unit and that you note the listed safety precautions.

GENERAL PROPERTIES

- 1) DVD/VCD/S-VCD/AUDIO CD/CD-R/CD-RW/MP3/JPEG/MPEG-4/DivX[®] playback
- 2) Official DivX[®] Certified product
Plays DivX[®] 5, DivX[®] 4, DivX[®] 3, and DivX[®] VOD video content (in compliance with DivX[®] Certified technical requirements)
- 3) PAL/NTSC playback (according to disc content)
- 4) User-friendly multilanguage OSD menu control
- 5) Vacuum Fluorescent Display (VFD)
- 6) DTS, Dolby Digital, LPCM audio, MPEG audio via coaxial and optical digital audio outputs.
- 7) Multiple Aspect Ratio support (16:9 Widescreen, 4:3 Letterbox, 4:3 PAN & SCAN)
- 8) Multi-Audio (up to 8) support
- 9) Multi-Subtitle (up to 32) support
- 10) Multi-Angle (up to 9) support
- 11) 8 level parental control
- 12) Fast forward and reverse in different speeds.
- 13) Smooth and seamless playback in 2x speed for DVD.
- 14) Slow motion playback in different speeds.
- 15) Frame by frame forward and backward playback
- 16) Time Search
- 17) Repeat (Disc, title, chapter, A-B)
- 18) Different play modes for Audio CD, MP3 and JPEG
- 19) Program function for Audio CD, MP3 and JPEG
- 20) Scart Connector
- 21) Progressive Scan Component Video output
- 22) S-Video output / Composite Video output

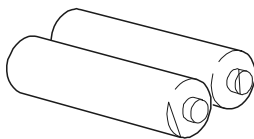
- Manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories.
- "DTS" and "DTS Digital Out" are trademarks of Digital Theater Systems, Inc.
- DivX, DivX Certified, and associated logos are trademarks of DivXNetworks, Inc. and are used under license.

SUPPLIED ACCESSORIES

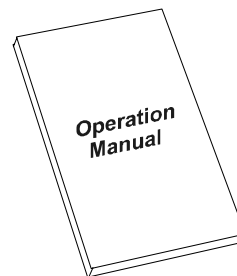
In the packaging material you will find the following:



a



b



c







(a) Remote control

(b) Two R03 (AAA) batteries for remote control

(c) Operation Manual

DISC TYPES COMPATIBLE WITH THIS UNIT

This player can play the following discs.

Disc Types (Logos)	Recording Types	Disc Size	Max. Playing Time	Characteristics
DVD 	Audio + Video	12 cm	Single - sided; 240 min. Double - sided; 480 min.	<ul style="list-style-type: none"> DVD contains excellent sound and video due to Dolby Digital and MPEG-2 System. Various screen and audio functions can be easily selected through the on screen menu.
		8 cm	Single - sided; 80 min. Double - sided; 160 min.	
VIDEO-CD 	Audio + Video	12 cm	74 min.	<ul style="list-style-type: none"> Video with CD sound, VHS quality & MPEG-1 compression technology.
		8 cm	20 min.	
AUDIO-CD 	Audio	12 cm	74 min.	<ul style="list-style-type: none"> An LP is recorded as an analog signal with more distortion. CD is recorded as a Digital Signal with better audio quality, less distortion and less deterioration of audio quality over time.
		8 cm	20 min.	
MP3-CD 	Audio (xxxx.mp3)	12 cm	It depends on MP3 quality.	<ul style="list-style-type: none"> MP3 is recorded as a Digital Signal with better audio quality, less distortion and less deterioration of audio quality over time.
PICTURE-CD 	Video (still picture)	12 cm	It depends on JPEG quality.	<ul style="list-style-type: none"> JPEG is recorded as a Digital Signal with better picture quality over time.
DivX® 	Audio + Video	12 cm	It depends on DivX® quality.	<ul style="list-style-type: none"> DivX® Video is recorded as a Digital Signal with better video quality over time.
		8 cm		

The following discs cannot be played back on this DVD player:

- DVD with region codes other than 2 or ALL.
- DVD-ROM
- DVD-RAM (Never play back, otherwise malfunction may result.)
- DVD-R/RW
- DVD+R/RW
- CDV (Only plays back the audio part.)
- CD-ROM
- CD-G (Only plays back the sound.)
- CD-I (Never play back, otherwise malfunction may result.)
- Super Audio CD (Only the sound recorded on the normal CD layer can be delivered. The sound recorded on the high density Super Audio CD layer cannot be delivered.)
- Photo CD (Never play back, otherwise malfunction may result.)

Any other discs without compatibility indications.

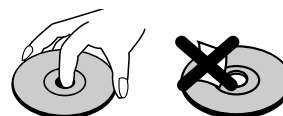
 **NOTE:**

When an incompatible disc is inserted, a message appears in the VFD and the On Screen Display (NO DISC, UNKNOWN DISC) indicating that the Disc is not playable.

Notes on Discs:

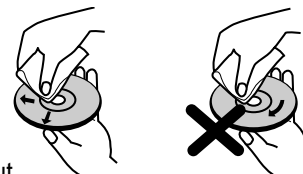
On handling discs

- To keep the disc clean, handle the disc by its edge. Do not touch the surface.
- Do not stick paper or tape on the disc.
- If the disc is contaminated with any substance like glue remove before using it.
- Do not expose the disc to direct sunlight or heat sources such as hot air ducts, or leave it in a car parked in direct sunlight as the temperature can rise quickly and damage the disc.
- After playing, store the disc in its case.



On cleaning

- Before playing, clean the disc with a cleaning cloth. Wipe the disc from the center out.
- Do not use solvents such as benzene, thinner, commercially available cleaners or anti-static spray intended for vinyl LPs.



Discs that should not be used

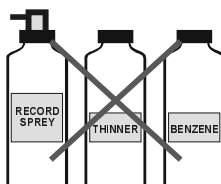
Only the discs including the marks shown on page 6 can be played.

Note, however, that discs with special shapes (heart-shaped discs, hexagonal discs, etc.) cannot be played. Do not attempt to play such discs, as they may damage the player.



 **NOTE:**

- Do not use record spray or antistatic. Also do not use volatile chemicals such as benzene or thinner.



SAFETY PRECAUTIONS

Power Source

The unit should be operated only from a 220-240V~ 50 Hz outlet. Please do not open the cover by yourself. There is high voltage in the set, which will endanger your life. Please contact local service agent for help and advice. Repairs to be carried out by a qualified technician only.

- The apparatus is not disconnected from the AC power source (mains) as long as it is connected to the wall outlet, even if the apparatus itself has been turned off.
- If you are not going to use the apparatus for a long time, be sure to disconnect the apparatus from the wall outlet.

Power Cord

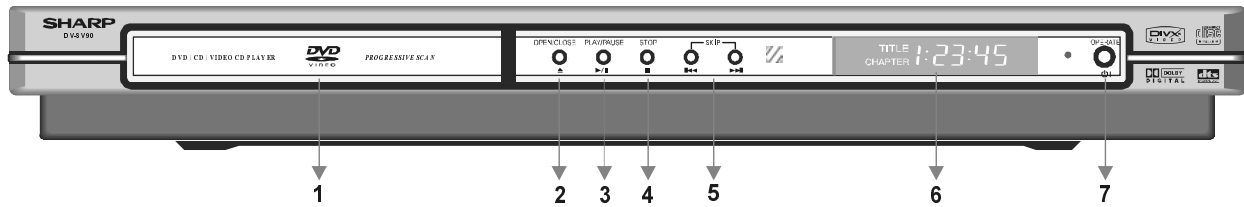
Do not place the unit, a piece of furniture, etc., on the power cord (mains lead), or pinch the cord. Handle the power cord by the plug. Do not pull out the plug by tugging the cord and never touch the power cord when your hands are wet as this could cause a short circuit or electric shock. Never make a knot in the cord or tie it with other cords. The power cords should be routed in such a way that they are not likely to be stepped on. A damaged power cord can cause fire or give you an electrical shock. Check the power cord once in a while. When you find it damaged, ask closest service agent for help. When the AC power cord need to be changed, it should be done at a qualified service shop only.

Choice of Location

- Please do not place the set in a place subject to direct sun light, excessive dust or mechanical shock or in a location near heat sources.
- The set should be placed on a solid and safe base. Do not place the apparatus on a soft surface such as a rug that might block the ventilation holes on the bottom.
- A location should not be selected such as a room with high humidity, as the condensation, arising in the kitchen for example, may cause malfunction or damage the set.
- Heating or other thermal radiation under the set also may cause malfunction or damage the set.
- The hot air, which arises during the operation, should be ventilated with sufficient air circulation. Please do not put the set into closed areas and do not cover it.
- Please avoid the contact of the set with water or humidity. Do not put into operation near bath, swimming pools.
- Take care to provide a good air circulation. Place the apparatus in a location with adequate ventilation to prevent heat build-up in the apparatus.
- Should any solid object or liquid fall into the cabinet, unplug the apparatus and have it checked by qualified personnel before operating it any further.



FRONT PANEL FUNCTIONS



1. Disc Tray

Place a disc on the tray.

2. OPEN/CLOSE button

Opens or closes the disc tray.

3. PLAY/PAUSE button

Plays/pauses the disc. For any DVD title that has a root menu with still picture, this button functions as "SELECT" button (selects highlighted item) in the root menu. Otherwise the disc will prohibit this function on the root menu, and "⏏" symbol will appear on screen.

4. STOP button

Stops playing the disc.

5. SKIP buttons

Press to go back to the preceding chapter/track or to go to the next chapter/track.

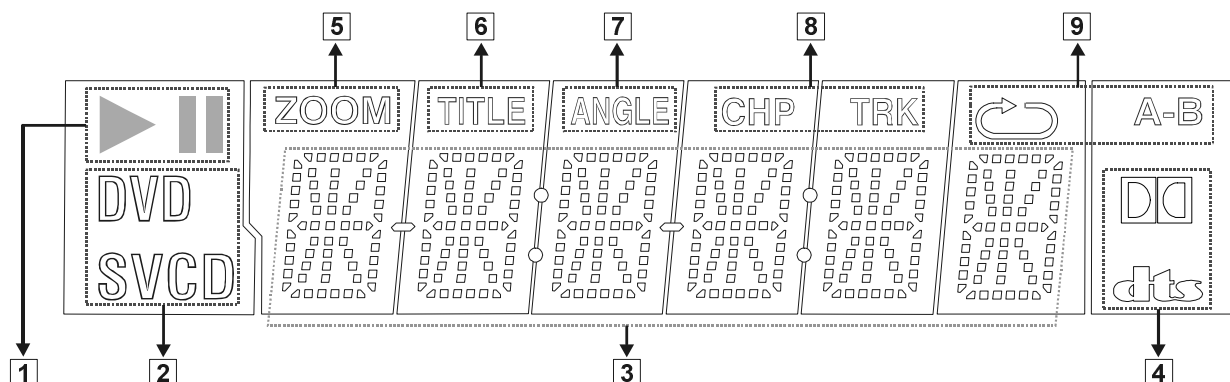
6. Front Panel Display (VFD)

Indicates the playing time, title, chapter/track, etc.

7. OPERATE button

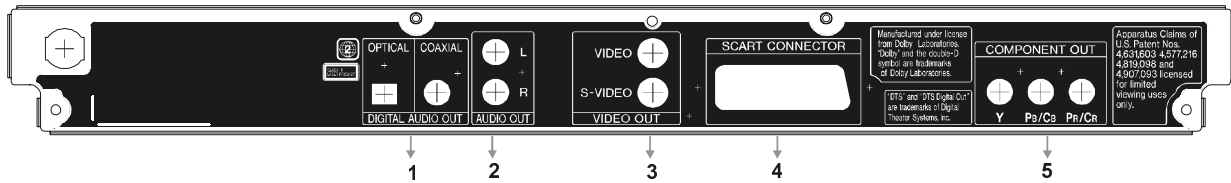
Turns the unit to OPERATE or STANDBY mode.

FRONT PANEL DISPLAY (VFD)



1. Play/Pause
2. Current Disc
3. Time or Title / Chapter / Track number
4. Dolby Digital / DTS
5. Zoom
6. Title Number
7. Angle
8. Chapter / Track Number
9. Repeat

REAR PANEL CONNECTIONS



1. DIGITAL AUDIO OUT connectors

OPTICAL :

This connection is optional. Connects to an audio component using the optical digital connection cable.

COAXIAL :

Connects to an audio component using the coaxial digital connection cable.

2. AUDIO OUT connectors

Connects to the AV amplifier or audio input connector on the TV by using 2 cables (Left, Right).

3. VIDEO OUT connectors

S-VIDEO :

Connects to the TV using the S-Video cable.

VIDEO :

Connects to the TV using the Video cable.

4. SCART connector

Connects to the TV using the SCART cable.

5. COMPONENT OUT connectors

Connects to the TV using the component video cable.

CONNECTION OF YOUR DVD PLAYER WITH TV

Be sure to turn off the power of each component before making the connections.

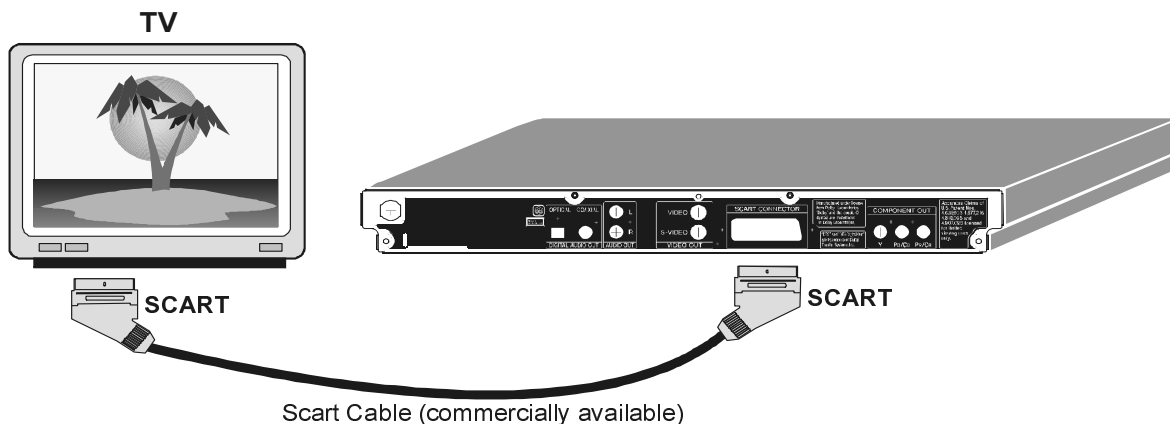
Use one video connection for best picture performance

Undesired video signal might come out from other connectors apart from the selected connector.

For best picture performance, selecting appropriate option from setup menu and using only one video connection is recommended.

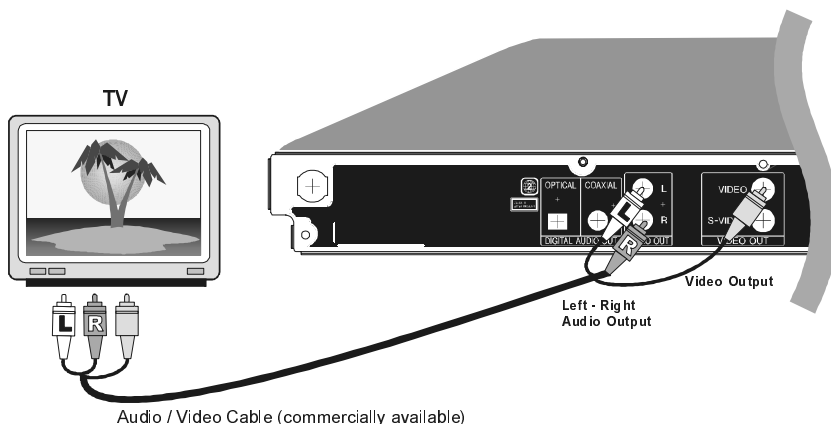
Scart Connector:

RGB signal via SCART cable gives you the best picture performance. If your DVD player will not be connected to a hi-fi set or A/V amplifier to hear better sound, scart is enough for both audio & video connections.



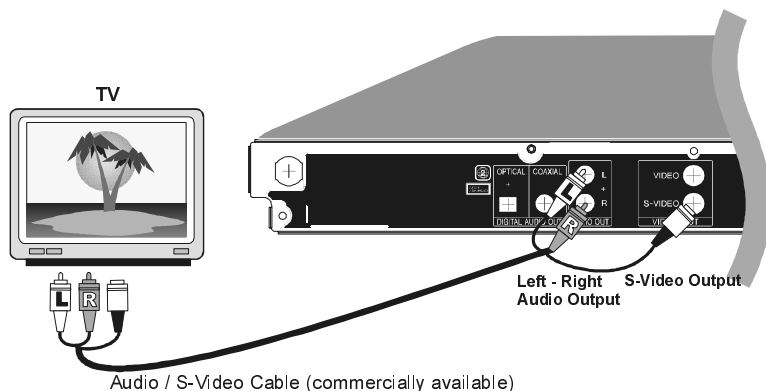
Video & Audio Output Connectors:

Video (yellow) & audio (Red: right, White: left) output connectors can be used to connect the DVD player to your TV set via cables. To make this connection, your TV set must have Video & audio input connectors. This type of connection is alternative to scart connection. Picture quality is not as good as SCART RGB connection but audio performance is the same.



S-Video & Audio Output connectors:

S-Video Output connector can be used to have a better picture quality than the video output. Your TV set must have S-video input connector for this type of connection. This connector is used for only video connection. For audio, red & white output connectors must be used. S-video picture quality is not as good as SCART RGB connection.



NOTE:

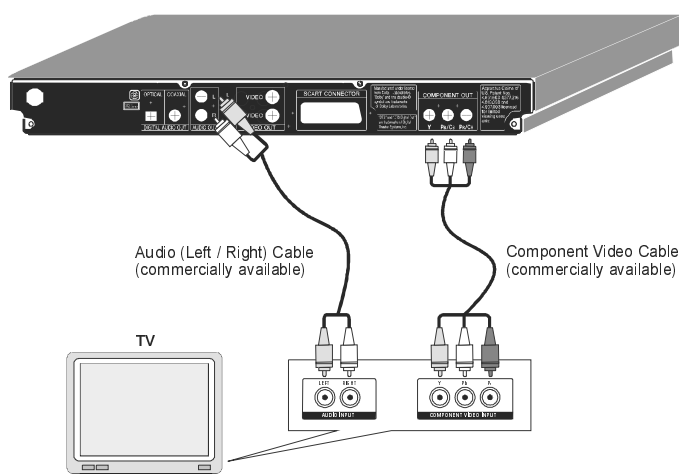
- Use S-Video cable with ferrite for better performance.

Component Video & Audio Output Connectors

- If you have a high-definition or “digital ready” TV, you may take advantage of the DVD Player’s progressive scan and YPBPR (YUV) output for the highest video resolution possible.
- If your TV does not accept the Progressive Scan or YPBPR (YUV) format, the picture will appear scrambled when you try Progressive Scan or YPBPR (YUV) output on the DVD Player.

1. Connect the **COMPONENT VIDEO OUT** connectors on the DVD Player to the corresponding **IN** connectors on the TV, using the component video cable.

2. Connect the **Left and Right AUDIO OUT** connectors of the DVD Player to the audio **Left and Right IN** connectors on the TV using the audio cables.



Compatibility of the progressive scan TV

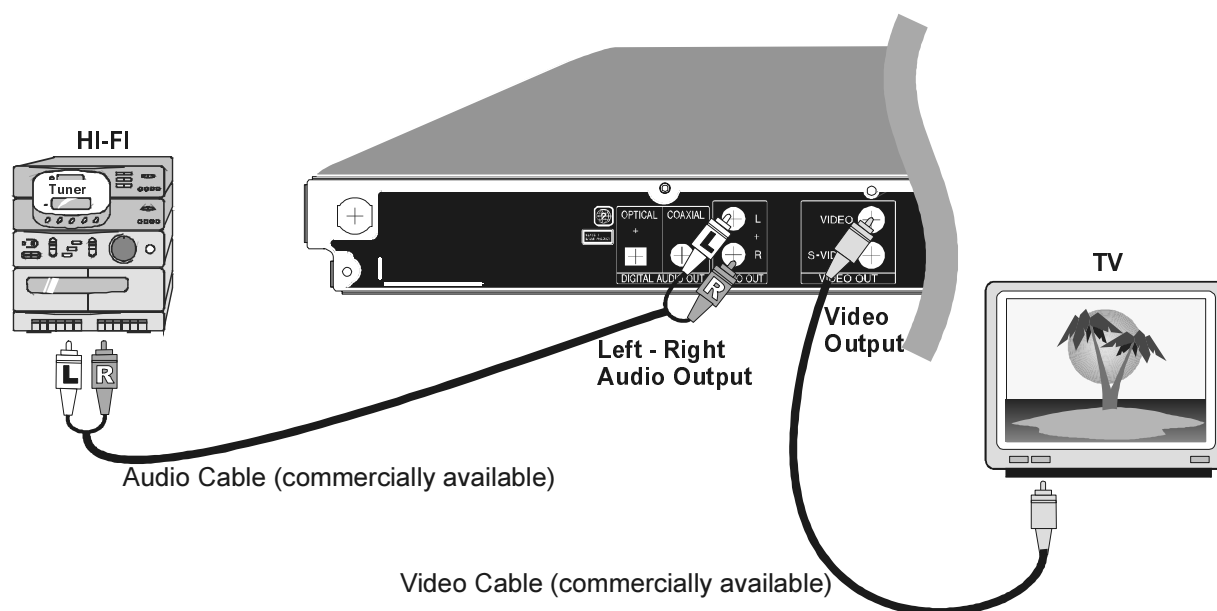
Some progressive scan TVs are not fully compatible with this product, which may cause image distortion. In this case, switch the video output mode from “PROGRESSIVE” to “S-VIDEO”, “Y/PB/PR” or “RGB”.

CONNECTION OF YOUR DVD PLAYER WITH AV AMPLIFIER

Be sure to turn off the power of each component before making the connections.

Analog Audio Output Connectors:

To get better sound quality, the unit can be connected to an amplifier via analog audio left/right outputs.

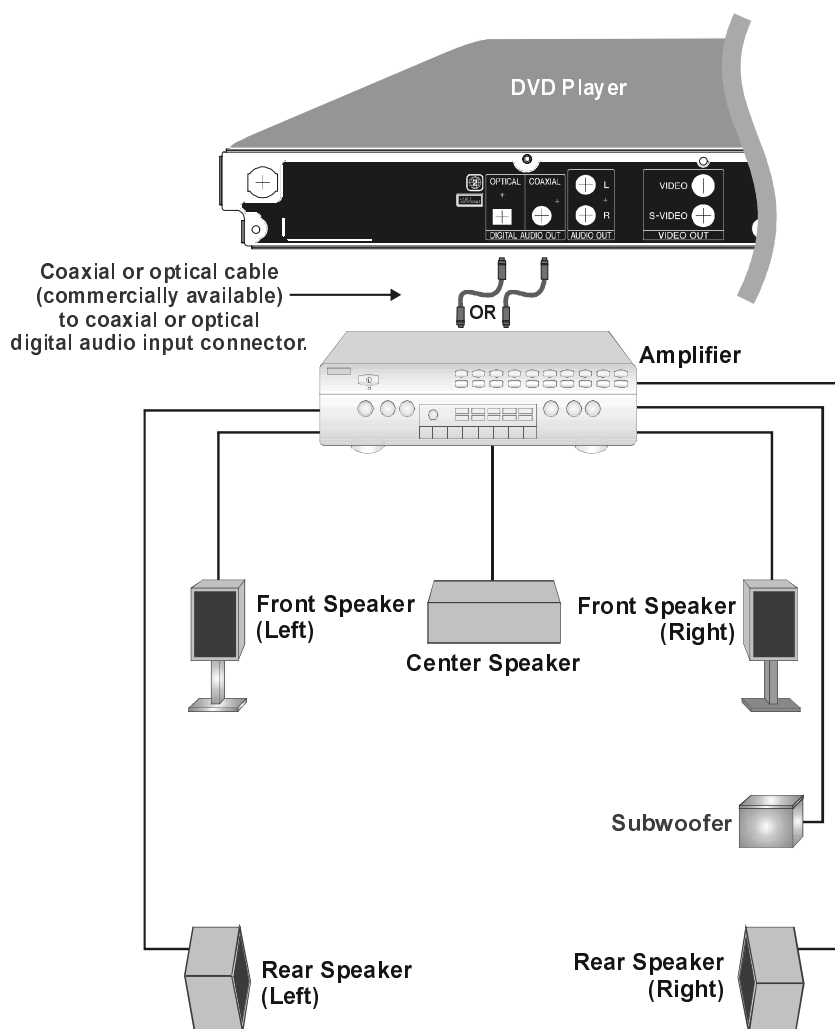
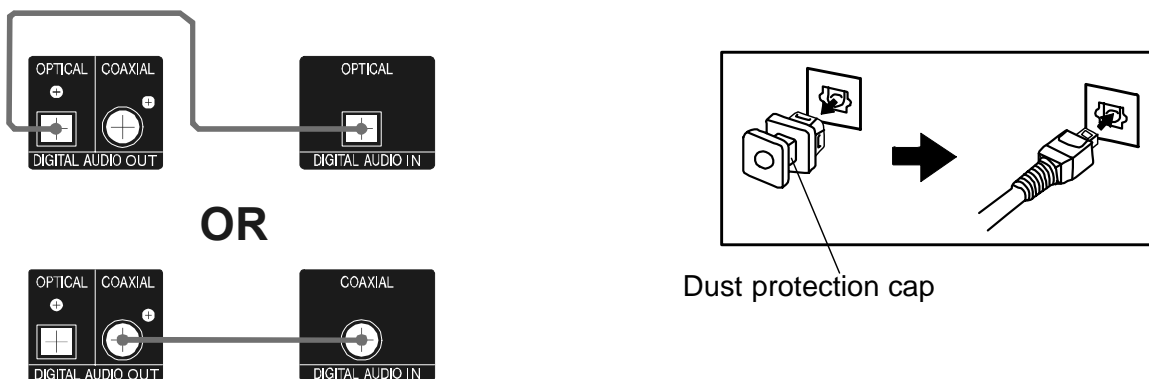


Digital Audio Output Connectors:

For the best sound, the unit can be connected via optical or coaxial digital audio outputs to an AV amplifier with a built-in Dolby Digital or DTS decoder. By using 6 speakers, user can enjoy the 5.1 channel surround sound.

DVD Player

Amplifier



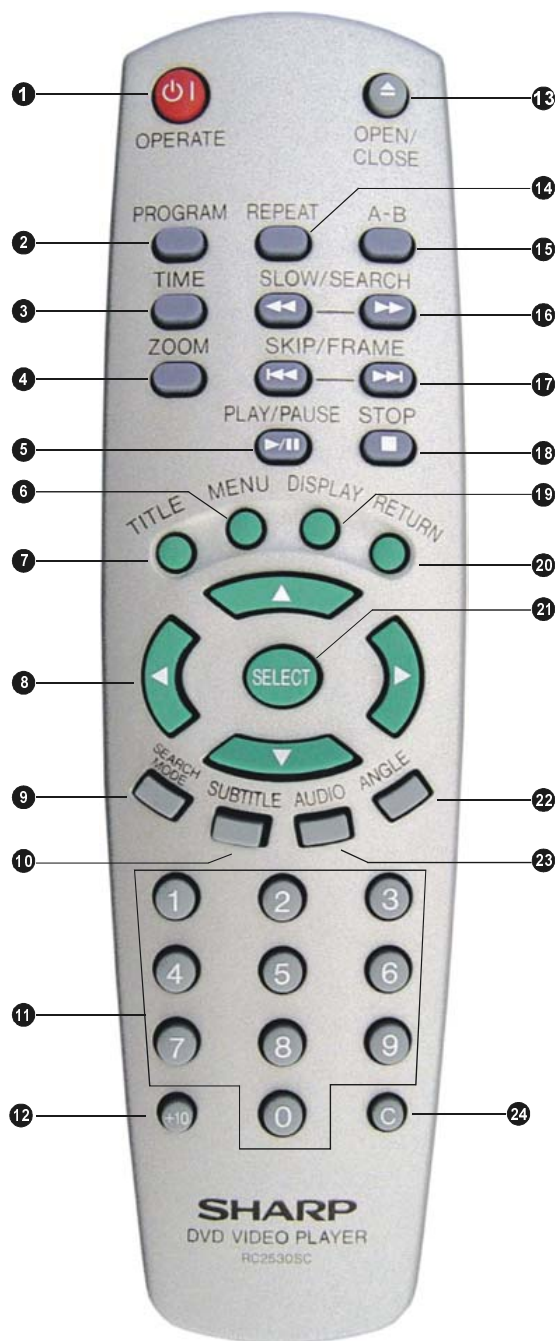
NOTE:

When this unit is connected to a separate Decoder Box or Amplifier through the DIGITAL AUDIO OUT connector, you may sometimes hear a short noise when selecting the sound system in the DVD Menu. This is not a malfunction.

FITTING BATTERIES IN YOUR REMOTE CONTROL

First open the battery cover under the remote control. Fit both batteries 1.5Volt (R03/AAA) referring to the imprinted symbols (+/-) in the battery case and close the battery cover again.

While using the remote control, direct it towards the front of the DVD player. If the remote control does not work or the chosen function can not be selected, the batteries are most probably exhausted and they should be replaced as soon as possible. Please use only the leak proof batteries. If you will not be using your remote control for a long time, it is recommended to take out the batteries from your remote control to avoid possible damage from battery leakage and corrosion. Do not leave the remote in an extremely hot or humid place.



REMOTE CONTROL FUNCTIONS

1. **OPERATE button**
Turns the unit on or switches the unit to standby mode.
2. **PROGRAM button**
Press to enter the program menu in stop mode for audio CD, MP3 CD and JPEG CD.
3. **TIME button**
Changes the playing time display mode of the disc, title, track, on the OSD and front panel display.
4. **ZOOM button**
Zooms the picture.
5. **PLAY/PAUSE button**
Plays/pauses the disc. For any DVD title that has a root menu with still picture, this button functions as "button select" (selects highlighted item) in the root menu. Otherwise this functioning of "Play/Pause" button on the root menu will be prohibited by the disc, and "⏏" will appear.
6. **MENU button**
Displays the DVD root menu on screen. During VCD playback, shows the VCD menu if it exists. Press again to resume play.
7. **TITLE button**
Displays the title menu on the TV screen.
8. **Arrow buttons**
Move to the items or settings.
9. **SEARCH MODE button**
Press to select the unit for search (title, chapter, track, time, index).
10. **SUBTITLE button**
Changes the language of the subtitle while playing a DVD and switches selected subtitle on/off for DivX®.
11. **Number buttons**
Press to enter track/chapter/title/time numbers directly.
12. **+10 button**
Using this button you can enter the numbers greater than 9.
13. **OPEN/CLOSE (⏏) button**
Opens or closes the disc tray.
14. **REPEAT button**
Press to execute disc/title/chapter repeat.
15. **A – B button**
Press to execute the A - B repeat play.
16. **SLOW/SEARCH button**
Press to adjust the forward and reverse playback at different speed during playback (fast forward/reverse) or during pause mode (slow motion).
17. **SKIP/FRAME button**
Press to go to the next chapter or track or to go back to the preceding chapter or track during playback and next frame during pause.
18. **STOP button**
Stops playing disc.
19. **DISPLAY button**
Displays the current playing status or set-up menu on the TV screen.
20. **RETURN button**
Returns to the preceding selection screen.
21. **SELECT button**
Executes the items or settings.
22. **ANGLE button**
Changes the angle when playing a DVD.
23. **AUDIO button**
Changes the language of the sound while playing a DVD.
Note:
This function is not applicable for Audio CD and Video CD.
24. **C button**
Using this button you can delete the mistyped entries or you can cancel some functions.

DVD PLAYBACK

Preparations

Turn on your audio system if the player has been connected to an audio system and turn on your TV.

Basic Play

1. Press **OPERATE**.
2. Press **OPEN/CLOSE** (▲) to open the disc tray.
3. Place a disc onto the tray.

Hold the disc without touching either of its surfaces, position it with the printed title side facing up, align it with the guides, and place it in its proper position.

4. Press **OPEN/CLOSE** (▲) .

A menu may appear on the TV screen after a few moments or the film may start immediately after the introduction of the Film Company. This behaviour depends on the disc content and may change.

NOTE:

- Step 5 and 6 is available only when a menu is recorded on the disc.

5. Press ◀ / ▶ / ▼ / ▲ or the **number button(s)** to select the preferred title.

6. Press **SELECT**.

Play of the selected items now starts. The played item may be a motion picture, a still picture or another submenu depending on the disc.

NOTE:

- When using menus the disc controls the behaviour of the player.

For stopping play and returning to the menu screen (when a menu is available on the disc), press **MENU** or **TITLE** depending on the disc. Play is suspended, and the Disc menu screen is displayed.

After operation


When the unit is not in use, remove the disc and press **OPERATE** to turn off the unit.

NOTE:

- The disc continues to rotate while the menu is displayed even after the player has finished playing a particular item. When no further selections are to be played, be sure to press **STOP** (■) to clear the menu display.

- If the disc is placed in upside down (and it is a single sided disc), the VFD display on the player will indicate **NO DISC**.

For your reference:

If an action corresponding to a button is prohibited, the “” symbol appears.

Stopping Play

Press **STOP** (■) twice.

When play is stopped, the unit records the point where **STOP** (■) was pressed once (RESUME function). Press **PLAY / PAUSE** again, and play will resume from this point. When the tray is opened or the **STOP** (■) is pressed again, the RESUME function will be cleared.

To stop the play permanently, press **STOP** (■) twice. When the **STOP** (■) is pressed for the first time, a message “PRESS PLAY TO CONTINUE” will appear on the screen to remind you if you want to continue the play. To stop the play press **STOP** (■) again or you can press **PLAY / PAUSE** to continue.

Fast Forward / Reverse

Press **SLOW/SEARCH** (◀◀ Fast reverse or ▶▶ Fast forward) on the remote control during playback.

Normal play is resumed when the **PLAY/PAUSE** or **SELECT** button on the remote control is pressed.

The speed of forward or reverse changes for every press ▶▶ or ◀◀.

Skip Forward / Backward

Press **SKIP/ FRAME** ◀◀ or ▶▶ during playback.

A chapter is skipped forward or backward each time the button is pressed.

Pause

Press **PLAY/PAUSE** once during playback.

The screen suspends.

To return to normal play:

Press **PLAY/PAUSE** again.

Step Forward / Backward

Press **PLAY/PAUSE** once during playback.

The screen suspends.

Press **SKIP/ FRAME** ◀◀ or ▶▶.

The next or previous frame of the movie is displayed.

Slow Motion Play Forward / Backward

Press **PLAY/PAUSE** once during playback.

The screen suspends.

Press **SLOW/SEARCH** (◀ Slow Backward or Slow Forward ▶) to increase or decrease the speed of the slow motion play.

The speed of slow motion play is displayed on the screen each time you change it.

To return normal play:

Press **PLAY/PAUSE**.

Instant Skip

During playback press right arrow button on remote control.

Movie continues forward playback with about 10 seconds interval.

During playback press left arrow button on remote control.

Movie continues backward playback with about 10 seconds interval.

Direct Selection of Scenes

Selecting Scenes by Chapter Number

Press **SEARCH MODE** on the remote control once during playback.

The chapter/title search box is displayed on the screen. You can see the total number of chapters as -/xx.

Enter the number of the chapter using number buttons.

The selected chapter is played just after you enter the chapter number.

If the chapter number you entered is between 0 and 9, player will automatically jump to the related chapter. To enter a chapter number which is more than 1 digit, press **+10** and then enter the chapter number.

You can clear the field by pressing **C** if you enter wrong number.

You can press **RETURN** to cancel chapter search.

NOTE:

- If you attempt to enter a number greater than the total number of chapters on the current title, the search box disappears.
- If you wait ten seconds without pressing any button for selecting scenes by chapter number operation is cancelled.

Selecting Scenes by Title Number

Press **SEARCH MODE** on the remote control once during playback.

The chapter/title search box is displayed on the screen.

Press **◀** (Left) button on the remote control to select the title field in the search box to change the title.

You can see the currently playing title and total number of titles as -/xx.

NOTE:

The forward and backward slow-motion operations are not recursive.

Enter the number of the title using number buttons.

The selected title is played just after you enter the title number.

Enter the title number between 0 and 9, your request will be acknowledged immediately without pressing any other key. To select a title number which is more than 1 digit, press **+10** and then enter the title number.

You can clear the field by pressing **C** if you enter wrong number.

You can press **RETURN** to cancel title search.

 **NOTE:**

- If you attempt to enter a number greater than the total number of titles, the search box disappears.
- If you wait ten seconds without pressing any button for selecting scenes by title number operation is cancelled.

Selecting Scenes by Time

You can view the DVD starting from any time point you want.

Press **SEARCH MODE** on the remote control “twice” during playback.

The time search box is displayed on the screen. You can see the total runtime of the title as --:--:--.

Enter the time using number buttons.

The title is played beginning from the desired time just after you enter the time. If not prohibited by the DVD.

You can clear the fields by pressing **C** if you enter wrong numbers.

You can press **RETURN** to cancel time search.

 **NOTE:**

- If you attempt to enter a number greater than the total time of the current title, the search box disappears.
- If you wait ten seconds without pressing any button for entering time, selecting scenes by time operation is cancelled.

Repeat Play

Repeat Viewing

Press **REPEAT** during playback.

Each time this button is pressed, a different repeat box is displayed on the screen.

If “**CHAPTER REPEAT ON**” is displayed, the current chapter will be played again.

If “**TITLE REPEAT ON**” is displayed, the current title will be played again.

If “**REPEAT OFF**” is displayed, the repeat mode is disabled.

 **NOTE:**

- Repeat play may be prohibited by some DVD titles.

Repeating Sections Between Two Specific Points (A – B repeat)

Press **A-B** during playback at the point where repeat play is to commence (**A**).

“**A TO B SET A**” is displayed.

Press **A-B** again at the point where repeat play is to be concluded (**B**).

“**A TO B REPEAT ON**” is displayed and the repeat play of the selection between points A and B starts. If not prohibited by the DVD.

To return to normal play:

Press **A-B** again. “**A TO B CANCELLED**” is displayed and the A-B Repeat is disabled.

Convenient Functions

Displaying the Time Information

Press **DISPLAY** during playback.

During playback, each time this button is pressed, some information is displayed on TV screen to indicate the current status of the disc. In the display screen you can find the following information lines:

Line 1: Title & Chapter Numbers

Line 2: Audio Format, Number of Output Channels & Audio Language

Line 3: Subtitle Language Number & Subtitle Language

Line 4: Time Counter Mode & Time Counter

Pressing **DISPLAY** once more closes this information screen.

You can also reach time information screen by pressing **TIME**.

Time counter modes can be selected by pressing **TIME** consecutively.

First press to **TIME**: **TITLE ELAPSED** Mode

Second press to **TIME**: **TITLE REMAIN** Mode

Third press to **TIME**: **CHAPTER ELAPSED** Mode

Fourth press to **TIME**: **CHAPTER REMAIN** Mode

If "**TITLE ELAPSED**" is displayed, the elapsed time for the title is being displayed.

If "**TITLE REMAIN**" is displayed the remaining time for the title is being displayed.

If "**CHAPTER ELAPSED**" is displayed, the elapsed time for the chapter is being displayed.

If "**CHAPTER REMAIN**" is displayed, the remaining time for the chapter is being displayed.

Pressing to **TIME** fifth time can close display menu screen.

Displaying a Scene with a Larger and Closer View

Zoom function enables you to take a closer look at the scene you are viewing that is especially a considerate function when you are watching science fiction or adventure film.

Press **ZOOM** during play.

By pressing **ZOOM** consecutively, you can reach different zoom modes.

NOTE:

- You can move in the picture i.e change the zoomed location by using the ◀ / ▶ / ▼ / ▲ arrow buttons.

To return to normal play:

Press **ZOOM** again. "Zoom Off" is displayed on the screen and the picture is now in its normal size.

Displaying / Changing Subtitle Language

It is possible to change the subtitle language from the one selected at the initial settings to a different language, if available.

(This operation works only with discs on which multiple subtitle languages are recorded, if not prohibited by the disc.)

Press **SUBTITLE** during playback.

When no subtitles are recorded "⏏" will be displayed instead of the selected language.

Press **SUBTITLE** a number of times until the preferred language is selected.

When this button is pressed once, the first subtitle recorded on the disc will be displayed. The rest of the subtitles recorded will be displayed in sequence for every press **SUBTITLE**.

Usually a circulation will happen while switching to another language, that is you can cancel the subtitle by pressing this button a number of times until "⏏" appears on the screen.

NOTE:

- In some cases, the subtitle language is not changed immediately to the selected one.
- When the preferred language is not selected even after pressing the button several times, it means that the language is not available on the disc.
- When the player is restarted or the disc is changed, the subtitle selection is automatically changed back to the initial settings.
- If a language is selected, which is not supported by the disc, the subtitle language will automatically be set to the disc's priority language.

Changing Audio Soundtrack Language

It is possible to change the audio language from the one selected at the initial settings to a different language, if available.

(This operation works only with discs on which multiple audio soundtrack languages are recorded, if not prohibited by the DVD.)

Press **AUDIO** during playback.

Press **AUDIO** a number of times until the preferred language is selected.


NOTE:

- When the preferred language is not selected even after pressing the button several times, it means that the language is not available on the disc.
- When the standby is turned on or the disc is removed, the language heard is the one selected at the initial settings. If this language is not recorded on the disc, only the available language on the disc will be heard.

Viewing From Another Angle

Some DVD discs may contain scenes, which have been shot simultaneously from a number of different angles. For these discs, the same scenes can be viewed from each of these different angles using the **ANGLE** button.

The number of recorded angles differs depending on the disc used.

“ x” is displayed shortly on the screen during playback. This indicates that the multi-angle scene has just started. Also on unit's display 'ANGLE' message appears. From that moment on, the xth of total angles is played and you can change the viewing angle until the end of the multi-angle scene.


In SETUP menu, an 'ANGLE MARK' option exists, which, if enabled, will display a continuous angle mark on the screen as long as multi-angle scene is available.

Press **ANGLE** during playback.

The current angle is changed

Press **ANGLE** a number of times until the preferred viewing angle is selected.

NOTE:

- This function will only work on discs where different angles have been recorded.
- The viewing angles are shown on the screen. You can select one from them for viewing.
- If you press **ANGLE** outside of a multi-angle scene on a multi-angle title, “” is displayed. It means that only one angle is currently available.

Using a DVD Menu

Some DVD discs have unique menu structures called DVD menus. For example, DVDs programmed with complex content provide guide menus, and those recorded with various languages provide menus for audio and subtitle language. Although the DVD menus' content and operation differ from disc to disc, the following explains basic operation when this feature is used.

Press **TITLE** or **MENU**.

The DVD menu available on the disc is now displayed.

NOTE:

- If you press **MENU**, the root menu of DVD is displayed.
- If you press **TITLE**, the menu of the current title is displayed.
- **MENU** and **TITLE** buttons do not function in RESUME mode.

Press **◀ / ▶ / ▼ / ▲** to select the preferred item.

Press **SELECT**.

The selected item is now executed.

You can also use **number buttons** to select a DVD menu item. The player will automatically execute the item. To enter an item number which is more than 1 digit, press **+10** and then enter the item number.

To resume the playback, select PLAY item in DVD menu.

NOTE:

- Some DVDs may not contain root and/or title menus.

VIDEO CD PLAYBACK

Preparations

Turn on your audio system if the player has been connected to an audio system and turn on your TV.

Basic Play

1. Press **OPERATE**.
2. Press **OPEN/CLOSE** (▲) to open the disc tray.
3. Place a disc onto the tray.

Hold the disc without touching either of its surfaces, position it with the printed title side facing up, align it with the guides, and place it in its proper position.

4. Press **OPEN/CLOSE** (▲) .

The disc tray is automatically closed.

For Video CDs without playback control:

Play commences immediately.

For Video CDs provided with playback control:

If disc contains a menu, it will appear on the screen after a few moments.

Menu Play

This function works only with video CDs with playback control (version 2.0).

Follow the instructions on the menu screen for interactive operation.

The details differ depending on the disc concerned. Also refer to the instructions accompanying the disc.

After steps 1 to 4 above the menus are displayed on the TV screen.

5. Press the **number button(s)** to select the preferred item.

The player now starts to play the selected item.

NOTE:

- Use **+10** button to enter two-digit-numbers.
- ◀ / ▶ / ▼ / ▲ arrow buttons are not used for selecting items for video CDs.

What is playback control?

If a video CD has "playback control " written on the disc of connectoret, it means that particular scenes or information can be selected for viewing interactively with TV screen using the menu screen.

When the menu continues onto another screen

After step 4, press **SKIP/ FRAME** ►► .

To return to the previous menu screen press **SKIP/ FRAME** ◀◀.

Stopping play and returning to the menu screen (when a menu is available on the disc)

Press **STOP**. Play is suspended, and the disc menu screen is displayed.

After operation

When the unit is not in use, remove the disc and press **OPERATE** to turn off the unit.

NOTE:

- The disc continues to rotate while the menu is displayed even after the player has finished playing a particular item. When no further selections are to be played, be sure to press **STOP** (■) to clear the menu display.
- If the disc is placed in upside down (and it is a single sided disc), the VFD display on the unit will indicate **(NO DISC)**.

For your reference:

When "✋" symbol appears while a button is being operated on up-left corner of OSD, it means that the player prohibits the corresponding operation.

Stopping Play

Press **STOP** (■) twice.

When play is stopped, the unit records the point where **STOP** (■) was pressed once (RESUME function). Press **PLAY / PAUSE** again, and play will resume from this point. When the tray is opened or **STOP** (■) is pressed again, the RESUME function will be cleared.

To stop the play permanently, press **STOP** (■) twice. When **STOP** (■) is pressed for the first time, a message "PRESS PLAY TO CONTINUE" will appear on the screen to remind you if you want to continue the play. To stop the play press **STOP** (■) again or you can press **PLAY/ PAUSE** to continue.

Fast Forward / Reverse

Press **SLOW/SEARCH** (◀ Fast reverse or ▶ Fast forward) on the remote control during playback.

Normal play is resumed when the **PLAY/PAUSE** or **SELECT** button on the remote control is pressed.

The speed of forward or reverse changes for every press ▶ or ◀ .

NOTE:

- No sound will be heard during fast forward or reverse.

Skip Forward / Backward

Press **SKIP/ FRAME** ◀◀ or ▶▶ during playback.

A track is skipped forward or backward each time the button is pressed.

Pause

Press **PLAY/PAUSE** once during playback.

The screen suspends.

To return to normal play:

Press **PLAY/PAUSE** again.

Step Forward

Press **PLAY/PAUSE** once during playback.

The screen suspends.

Press **SKIP/ FRAME** ▶▶.

The next frame of the movie is displayed.

NOTE:

- Reverse stepping is not available.

Slow Motion Play Forward

Press **PLAY/PAUSE** once during playback.

The screen suspends.

Press **SLOW/SEARCH** (Slow Forward ▶▶) to increase or decrease the speed of the slow-motion play.

The speed of slow motion play is displayed on the screen each time you change it.

To return normal play:

Press **PLAY/PAUSE** again.

NOTE:

- Reverse slow motion play is not available.

Direct Selection of Scenes

Selecting Scenes by Time (only for version 2.0 VCDs)

You can view the video CD, starting from any time point you want.

Press **SEARCH MODE** on the remote control once during playback.

The time search box is displayed on the screen as GO TO _ : _ : _ / x : xx : xx.

Enter the time using **number buttons**.

Player goes to entered time of the current track.

If you give up entering the time simply press **RETURN**, and the operation is cancelled.

NOTE:

- If you attempt to enter a number greater than the total time of the disc or current title, the search box disappears and “✋” symbol appears on up-left corner of screen.

Accessing Tracks Using Number Buttons

You can play any track you want, just by pressing the corresponding **number button**.

For the track numbers which are greater than “9” use **+10** button. Press this button once and then type the two digit track number.

If you attempt to enter a number greater than the total number of tracks on disc, “✋” symbol appears on up-left corner of screen.

NOTE:

- This operation is available only in discs without PBC.

Repeat Play

Press **REPEAT** during playback.

Each time this button is pressed, a different repeat box is displayed on the screen.

If **"REP-ONE"** is displayed, the current title will be played again.

If **"REP-ALL"** is displayed, the whole disc will be played again.

If **"REPEAT OFF"** is displayed, the repeat mode is disabled.

Repeating Sections Between Two Specific Points (A – B repeat)

Press **A-B** during playback at the point where repeat play is to commence (A).

"A TO B SET A" is displayed on screen.

Press **A-B** again at the point where repeat play is to be concluded (B).

"A TO B SET B" is displayed and the repeat-play of the selection between points A and B starts.

To return to normal play:

Press **A-B** again. "A TO B CANCELLED" is displayed and the A-B Repeat is disabled.

NOTE:

- This operation is available only in discs without PBC.
- If you give up entering the point B after entering A simply press **RETURN** or **C**, and the operation is cancelled.

Convenient Functions

Displaying the Time Information

Press **TIME** during playback.

Each time this button is pressed, a different time information box is displayed on the screen.

If **"SINGLE ELAPSED"** is displayed, the VFD display on the unit shows the elapsed time for the title which is being played

If **"SINGLE REMAIN"** is displayed, the VFD display on the unit shows the elapsed time for the title which is being played

If **"TOTAL ELAPSED"** is displayed, the VFD display on the unit shows the elapsed time for the title which is being played

If **"TOTAL REMAIN"** is displayed, the VFD display on the unit shows the remaining time for the title which is being played

Displaying a Scene with a Larger and Closer View

This zoom in function enables you to take a closer look at the scene you are viewing.

This is especially a considerate function when you are watching science fiction or adventure film.

Press **ZOOM** during playback.

You can change the zooming ratio by pressing **ZOOM** button more than once.

NOTE:

- You can move in the picture i.e change the zoomed location by using the **◀ / ▶ / ▼ / ▲** arrow buttons.

To return to normal play:

After the biggest zoom ratio, press **ZOOM** again. "Zoom Off" is displayed on the screen and the picture is now in its normal size.

AUDIO CD PLAYBACK

Preparations

Turn on your audio system if the player has been connected to an audio system.

Basic Play

1. Press **OPERATE**.
2. Press **OPEN/CLOSE** (▲) to open the disc tray.
3. Place a disc onto the tray.

Hold the disc without touching either of its surfaces, position it with the printed title side facing up, align it with the guides, and place it in its proper position.

4. Press **OPEN/CLOSE** (▲).

Play is commenced.


After operation

When the unit is not in use, remove the disc and press **OPERATE** to turn off the unit.

NOTE:

- If the disc is placed in upside down (and it is a single sided disc), the VFD display on the unit will indicate **NO DISC**.

For your reference:

When “” symbol appears while a button is being operated , it means that the corresponding operation is prohibited by the player .

Stopping Play

Press **STOP** (■) twice.

When play is stopped, the unit records the point where **STOP** (■) was pressed once (RESUME function). Press **PLAY/PAUSE** or **SELECT** again, and play will resume from this point. When the tray is opened or **STOP** (■) is pressed again, the RESUME function will be cleared.

To stop the play permanently, press **STOP** (■) twice. When **STOP** (■) is pressed for the first time, a message “**PRESS PLAY TO CONTINUE**” will appear on the screen to remind you if you want to continue the play. To stop the play press **STOP** (■) again or you can press **PLAY/PAUSE** to continue.

Fast Forward / Reverse

Press **SLOW/SEARCH** (◀◀ Fast reverse or Fast forward ▶▶) on the remote control during playback.

The speed of advance or reverse changes for every press ▶▶ or ◀◀. You can also resume normal play using these buttons.

Normal play is resumed when **PLAY/PAUSE** or **SELECT** button on the remote control is pressed.

NOTE:

- No sound will be heard during fast forward or reverse.

Skip Forward / Backward

Press **SKIP/ FRAME** ◀◀ or ▶▶ during playback.

A track is skipped forward or backward each time the button is pressed.

Pause

Press **PLAY/PAUSE** once during playback.

The play suspends.

To return to normal play:

Press **PLAY/PAUSE** again.

Direct Selection of Tracks

Selecting by Time

You can play the audio CD starting from any time point you want.

Press **SEARCH MODE** on the remote control during playback.

The time search box is displayed on the screen as GO TO __ : __ / xx : xx.

Enter the time using **number buttons**.

Player goes to entered time of the current track.

NOTE:

- If you give up entering the time simply press **RETURN** or **C**, and the operation is cancelled.

Accessing Tracks Using Number Buttons

You can play any track you want, just by pressing the corresponding **number button**.

For the track numbers which are greater than "9" use **+10** button. Press this button once and then type the two-digit track number.

If you attempt to enter a number greater than the total number of tracks on disc, "👉" symbol is displayed on screen.

Repeat Play

Press **REPEAT** during playback.

Each time this button is pressed, a different repeat box is displayed on the screen.

If "**REP-ONE**" is displayed, the current track will be played again.

If "**REP-ALL**" is displayed, the whole disc will be played again.

If "**REPEAT OFF**" is displayed, the repeat mode is disabled.

NOTE:

- If the play list is active, the playlist is repeated instead of the whole disc in "Repeat All" case.

Repeating Sections Between Two Specific Points (A – B repeat)

Press **A-B** during playback at the point where repeat play is to commence (A).

"A TO B SET A" is displayed.

Press **A-B** again at the point where repeat play is to be concluded (B).

"A TO B SET B" is displayed and the repeat-play of the selection between points A and B starts.

To return to normal play:

Press **A-B** again. "A TO B CANCELLED" is displayed and the A-B Repeat is disabled.

NOTE:

- If you give up entering the point B after entering A simply press **RETURN** or **C**, and the operation is cancelled.

Convenient Functions

Displaying the Time Information

Press **TIME** during playback.

Each time this button is pressed, an information box is displayed on TV screen to indicate the status of the time displayed on the VFD display.

If “**SINGLE ELAPSED**” is displayed, the VFD display on the unit shows the elapsed time for the track that is being played.

If “**SINGLE REMAIN**” is displayed, the VFD display on the unit shows the remaining time for the track which is being played.

If “**TOTAL ELAPSED**” is displayed, the VFD display on the unit shows the elapsed time for the disc which is being played

If “**TOTAL REMAIN**” is displayed, the VFD display on the unit shows the remaining time for the disc which is being played.

Program Function

Press **STOP** (■) if it's playing.

Press **PROGRAM** to select program mode.

Enter track numbers that you want to add to program list.

For the track numbers which are greater than “9”, use **+10**. Press this button once and then type the two digit track number.

Press **SELECT** to finish the program entry.

Screen is cleared and it will start playing the program list.

NOTE:

- If you attempt to enter a number greater than the total number of tracks on disc, the search box doesn't disappear.

You can remove the last track of the play list by pressing **C**.

The program is canceled when:

- The disc track is opened or closed.
- The power is turn.

SMARTNAVI

To see the directory structure (menu) of MP3, JPEG, MPEG-4 or DivX® files, you should set SMARTNAVI option to WITH MENU in setup page.



Basic Play

1. Press **OPERATE**.
2. Press **OPEN/CLOSE** (▲) to open the disc tray.
3. Place a CD-R / CD-RW disc onto the tray.

Hold the disc without touching either of its surfaces, position it with the printed title side facing up, align it with the guides, and place it in its proper position.

4. Press **OPEN/CLOSE** (▲) to close the disc tray.

DISC LOADING message appears on screen. Please wait for a moment.

SMARTNAVI is appeared. "Directories and files are listed on the left part".

5. Press **UP** (▲) / **DOWN** (▼) to select file to be played.

In the stop mode you can navigate in all directories. If an MP3 track is playing, only the current directory can be used for navigation.

6. Press **SELECT** on a file to play.

If a file is focused on the left part, the preview of the item is displayed. If a folder is focused on the left part, the total number of files in that directory is displayed.

MP3, MPEG-4 or DivX® File :

Selected MP3, MPEG-4 or DivX® file starts to play.

Elapsed or Remaining Time is displayed according to Time Mode.

JPEG File :

Selected JPEG is displayed in full screen.

Slide Show starts automatically.

Pause

Press **PLAY/PAUSE** once during playback.

The play suspends. PAUSE message appears on screen.

To return to normal play:

Press **PLAY/PAUSE** again.

Stopping Play

Press **STOP** (■).

The play is stopped. STOP message is appeared on screen for a while.

Fast Forward / Reverse

For MP3, MPEG-4 or DivX® File :

Press **SLOW / SEARCH** ◀ / ▶ during playback to decrease/increase play speed.

To return to normal play:

Press **PLAY/PAUSE**.



NOTE:

- No sound will be heard during fast forward or reverse.
- Slow motion playback is disabled for MPEG-4 and DivX® file.

Skip Forward / Backward

Press **SKIP/ FRAME** ◀◀ or ▶▶ during playback.

Next file in the current directory will be played.

Instant Skip

During playback press right arrow button on remote control.

Movie continues forward playback with about 10 seconds interval.

During playback press left arrow button on remote control.

Movie continues backward playback with about 10 seconds interval.



NOTE:

- The interval time may differ by files.

Subtitle Setting For DivX® File

Focus on a subtitle file of DivX® and press **SELECT**.
"SUBTITLE SELECTED" message appears on SMARTNAVI.

Focus on the related DivX® file and press **SELECT**.

DivX® file starts playing with the selected subtitle.

You can switch selected subtitle on/off by **SUBTITLE** button.

NOTE:

- DivX® file length in SMARTNAVI menu may not match the real DivX® file length.

Image Transformation

For JPEG File :

Press **PLAY/PAUSE** to start slide show.

There are four modes for transformation:

- Invert
- Mirror
- Left
- Right

These operations are allowed only when a picture is being displayed normally, and will be cancelled automatically when a new picture is displayed. The arrow buttons are used to select the different transformation modes.

Press **UP** (▲) to invert/normal.

Press **DOWN** (▼) to mirror.

Press **LEFT** (◀) to turn left.

Press **RIGHT** (▶) to turn right.

Zoom

For JPEG File:

Press **PLAY/PAUSE** to start slide show.

It is provided both ZOOM in/out and Zoom pan functions for JPEG pictures.

Press **ZOOM** to turn on/off this function.

When this mode is on, any picture will be displayed at the last ratio selected by the user.

A message will indicate the current ratio on screen.

If zoom mode is on,

Press **SLOW/SEARCH** to control the ratio of zoom in/out.

NOTE:

- During ZOOM function, image transformation is disabled.

Repeat Modes

Press **REPEAT** to change current repeat mode.

Repeat mode is displayed for a while in slide show mode.

In SMARTNAVI it is displayed at the bottom.

Displaying the Time Information

Press **TIME** to change displayed time mode.

Program Function

Press **PROGRAM** to select program mode in stop mode.

PROGRAM Message is appeared.

Press **number buttons** to select files in the current directory.

Alternatively, you can use **UP** (▲) / **DOWN** (▼) buttons and then press **SELECT** to add selected file into the program list.

PROGRAM Message is appeared with the current file index and the total files in the list.

Press **STOP** (■) to finish program.

Press **PLAY/PAUSE** to start program.

PLAY Message is appeared.

Files in the program list are played sequentially.

NOTE:

- You can use trick mode buttons, skip prev/next files, and so on.
- You can remove the last track of the playlist by pressing **C**.
- The program remains even after the Program Play ends.

If you want to quit program mode:

Press **STOP** (■) if a track is being played.

Press **PROGRAM** twice.

The program is cancelled when:

- The disk tray is opened or closed
- The standby is turned off
- In each directory change

USING SETUP MENU

Press **DISPLAY** on the remote control when the player is not in playback mode.

The setup menu-main page appears. This is the menu, where you can change the device's settings.

Using Main Page

Select items using **UP** (▲) / **DOWN** (▼) buttons.

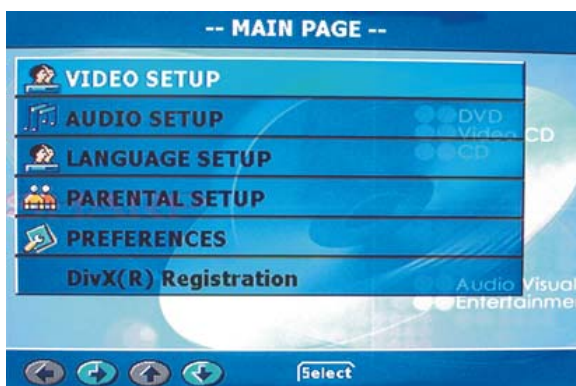
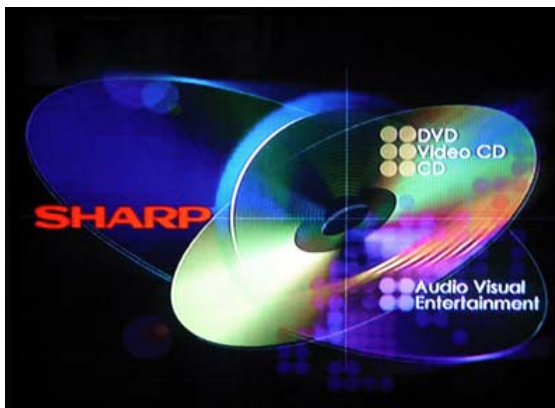
When selected, the item will be highlighted.

Press **SELECT** to change highlighted item.

The submenu for the selected item appears on the screen.

SETUP menu will only be available when the player is not playing a disc.

In RESUME (Pre-Stop) mode, some pages and some items can not be accessed. On the MAIN PAGE, you can not access VIDEO SETUP and PARENTAL SETUP pages in RESUME mode.



NOTE:

- To close the setup menu, press **DISPLAY**.

Using Sub Menus

Use **LEFT** (◀) / **RIGHT** (▶) buttons to switch between left and right menus.

Once you enter any submenu,

Use **UP** (▲) / **DOWN** (▼) buttons to move the highlighted position up and down.

Press **SELECT** to choose the highlighted option on the right menu.

To close the setup menu, press **DISPLAY**.

NOTE:

- In any submenu, to return to main page, use **LEFT** (◀) / **RIGHT** (▶) buttons.

VIDEO SETUP

TV DISPLAY:

The aspect ratio of the picture provided by the DVD player can be varied in line with the features available on the TV in use.

The options available are:

NORMAL / PS (4x3 Pan & Scan):

Allows you to see the movie fill the entire screen of your TV, but not the right and left edges. This type of picture can only be viewed, if it is contained on the disc.



NORMAL / LB (4x3 Letterbox):

Allows you to see movies in their original aspect ratio. You will see the entire frame of the movie, but it will occupy a smaller portion of the screen.



WIDE (Wide screen 16x9):

Choose this setting if your DVD player is connected to a wide-screen TV.



Please Note:

Depending on the format of the DVD disc. (eg. 2.35:1) the picture may still have black lines above and below this picture.

TV TYPE:

The video standard of the DVD player output can be selected from "MULTI.SYSTEM" or "PAL".

If "MULTI.SYSTEM" is selected, the output standard will be either NTSC or PAL depending on the DVD being played.

If "PAL" is selected, the video output will be converted to PAL standard irrespective of disc standard.

NOTE:

When an NTSC disc is played, it is possible that some subtitles will be distorted. If this happens please change TV TYPE to "MULTI.SYSTEM".

VIDEO OUTPUT:

The Video output of the DVD player can be selected as "S-VIDEO", "Y/PB/PR", "RGB" or "PROGRESSIVE".

NOTE:

Video signal might come out from other connectors apart from the selected connector. Selecting appropriate option from setup menu is recommended to get the best picture quality for the selected connector.

Progressive Scan Output :(see page 13)

WARNING:

To be able to see the progressive video correctly, you should have a progressive scan TV and should make the video connections correctly.

- 1.Highlight "PROGRESSIVE" option in the video output menu and press **SELECT**.
- 2.A confirmation dialog screen will be displayed.
- 3.If you see the picture correctly, choose "OK" and press **SELECT**.
- 4.If you cannot see the picture correctly, choose "CANCEL" and press **SELECT**.

NOTE:

- If your TV set does not have a progressive scan feature, nothing will be displayed on the screen, when "PROGRESSIVE" is selected.
- If you do not see anything on the screen or if you do not press "OK" within 10 seconds, video output setting will return to previous setting automatically.

If "S-VIDEO" is selected, RGB output via scart will be disabled, only CVBS will be active via scart. S-VIDEO output will be active via MiniDIN connector. After switching to S-VIDEO, TV should be switched to S-VIDEO input with TV remote control. If "S-VIDEO" is selected in order to disable RGB via scart and user prefers to watch CVBS via scart, TV should be switched to scart input with TV remote control.

If "RGB" is selected, S-VIDEO output will be disabled. Scart output will be CVBS+RGB. This is the factory setting of this unit.

- You also can change the video output setting directly by pressing buttons on the remote control.

This function is useful when you select the video output setting wrongly and cannot see the picture correctly.

1. Open the disc tray by pressing **OPEN/CLOSE**.
2. Press **TIME**.
3. Then press the following number buttons to change the video output.

7-8-4 To S-VIDEO

9-8-8 To Y/PB/PR

7-4-2 To RGB

7-7-6 To PROGRESSIVE

AUDIO SETUP

Note: It is not possible to connect speakers directly to this unit; an AV amplifier must be used.

COMPRESSION:

Boosts frequency response. This item can be selected between "OFF" and "MAX".

LPCM OUTPUT:

This item can be selected as "LPCM 96K" or "LPCM 48K".

LANGUAGE SETUP

OSD LANGUAGE:

You can select the default OSD language of the player menus.

AUDIO:

You can select the default audio language if supported by the DVD disc.

SUBTITLE:

You can select the default subtitle language if supported by the DVD disc.

DISC MENU:

You can select the DVD's disc menu language among these languages. Disc menu appears in the selected language, if supported by the DVD disc.

PARENTAL SETUP

Playing some DVDs can be limited depending on the age of users. The "Parental Control" function allows playback limitation level to be set by the parent.

PARENTAL (Parental Level) :

Parental Level can be adjusted to one of the eight levels. Level "8 ADULT" adjustment let you watch all of the DVD titles ignoring the DVD disc's parental level. You can watch the DVD discs, which has the same or lower parental level than the player's level only.

PASSWORD :

Password to change the parental level can be set by using this option. Factory preset of the password is "0000"

You have to enter XXXX digital password every time you want to change the parental level.

Change Password :

Using this item you can change the current password.

To change the password you will be prompted to enter your old password. After you have entered your old password, you can now enter the new 4-digit password.

Entering the new password once is not enough, it should also be confirmed. Confirm pwd box is for confirming new password.

Press **SELECT** to move to confirm password box.

- You can use **C** button to delete the incorrect entry.



NOTE:

- If your forget the password see page 38.

PREFERENCES

ANGLE MARK :

This option allows you to turn on /off the angle mark on the screen, which is displayed to indicate that a multi angle scene has started. It also shows which angle you are currently watching.

STANDBY TIME :

Standby activation feature can be disabled or Standby activation time can be adjusted using this option. If one of the time options is selected, Standby is activated, whenever no button is pressed for the selected time duration in stop mode.

SMARTNAVI :

This option allows you to enable or disable the SMARTNAVI which is used for playing MP3, JPEG, MPEG-4 or DivX® file.

TRANSPARENCY :

Using this option one of four transparency levels can be selected for the on screen display.

DEFAULTS :

If you choose DEFAULTS and press **SELECT**, the factory-presets are loaded. Parental level and parental password does not change.

DivX(R) Registration

For details, see DivX(R) Registration page of the setup menu.

TROUBLESHOOTING

The picture quality is poor (DVD)

- Make sure the DVD disc surface is not damaged. (Scratch, fingerprint etc.)
- Clean the DVD disc and try again.
- Ensure that the DVD disc is in the drawer with the label uppermost.
- A damp DVD disc or condensation may effect the equipment. Wait for 1 to 2 hours in Stand-by to dry the equipment.

Disc does not play

- No disc in the machine.
 - Place a disc onto the tray.
- Disc incorrectly loaded.
 - Ensure that the DVD disc is in the drawer with the label uppermost.
- Wrong type of disc. The machine cannot play CD-ROMS etc.
 - Use disc in supported formats described on page 6.
- The region code of the DVD must match the one of the player.

Wrong OSD language

- Select the language in the set-up menu.

The language for the sound or subtitles on a DVD cannot be changed.

- Multilingual sound and/or subtitles not recorded on the DVD.
- Try to change the sound or subtitles using DVD's title menu. Some DVD's do not allow the user to change these settings without using the disc's menu.

Some functions (Angle, Zoom etc) do not work

- These functions are not available on the DVD.
- Angle can only be changed when the angle symbol is displayed.

No picture

- Check that the player is connected to TV properly and that all connections between the DVD player and other attached equipment are secure.
- Have you pressed the correct buttons on the remote control? Try once more.

No sound

- Check the volume is set to an audible level.
- Make sure you have not switched the sound off accidentally.

Distorted sound

- Check that the appropriate listening mode setting is correct.

No response from remote control

- Check batteries are fitted correctly.
- Change the batteries.

If nothing works

If you have tried the above solutions and none seem to work, try switching your DVD off and on again. If you still encounter operational problems, unplug AC-cord and wait for a few minutes to reset the player completely. If all these actions are unsuccessful, contact your supplier or DVD repair technician.
Never attempt to repair a defective DVD yourself.

SPECIFICATIONS

DVD/VCD/S-VCD/AUDIO CD/CD-R/CD-RW/MP3/DivX®/JPEG player,

Power Requirements	220 - 240 V 50 Hz Auto Adjustable Power consumption: 10 W (POWER ON), Appr. 5 W (STANDBY mode)
Types of Discs Supported	<p><u>DVD</u>: SS/SL 120mm (DVD-5) SS/DL 120mm (DVD-9) DS/SL 120mm (DVD-10) DS/DL 120mm (DVD-18)</p> <p>VCD S-VCD AUDIO CD CD-R CD-RW MP3 JPEG MPEG-4 DivX®</p>
Video Type	<p>MPEG-2 Video Standard Decoding (MPEG-1 supported) Full-Screen Video Display of 720 x 576 (PAL) & 720 x 480 (NTSC) pixel 50 and 60 Hz frame refresh rates (PAL & NTSC) Digital bit-stream processing rate up to 10.08Mbits/sec Line resolution more than 500 lines</p>
Video Output	<p><u>Analog Video</u>: (With using 6 x 10-bits / 27MHz video DACs) <u>CVBS</u> : PAL / NTSC (Negative synchronised), 1Vpp [75 Ω (loaded)] <u>S-VIDEO</u> : Y Output: 1Vpp [75 Ω (loaded)], C Output : 286 mVpp [75 Ω (loaded)] (NTSC) 300 mVpp [75 Ω (loaded)] (PAL) Through 4-pin MiniDIN S-VIDEO connector or <u>RGB + CVBS</u> : Through Full Euroscart Output (Pin-8 Control)</p> <p>Analog Component Video Y Output : 700mVpp [75 Ω (loaded)], (PAL) Pb/Cb Output : 700mVpp [75 Ω (loaded)], (PAL) Pr/Cr Output : 700mVpp [75 Ω (loaded)], (PAL) When progressive scan is used, scart video outputs are disabled.</p>
Audio Type	<p>Dolby Digital out and Downmix LPCM DTS Digital out</p>
Audio Output	<p><u>Digital Audio Outputs</u>: IEC 958 TOSLINK</p> <p><u>Analog Outputs</u>: 24 Bit/ 96, 48, 44.1kHz down-sampling DAC 2 RCA jack outputs (Left / Right) Left / Right audio outputs of Full Euroscart</p> <p><u>Output / Channel</u>: 2 Vrms (0 dB fs, 1kHz)</p>
Dimensions	420 mm(W) x 54 mm(H) x 280 mm(D)
Weight	2.7 kg

DEFINITION OF TERMS

Angle

Recorded onto some DVD discs are scenes, which have been simultaneously shot from a number different angle (the same scene is shot from the front, from the left side, from the right side, etc.). With such discs, the ANGLE button can be used to view the scene from different angles.

Chapter Number

These numbers are recorded on DVD discs. A title is subdivided into many sections, each of which are numbered, and specific parts of video presentations can be searched quickly using these numbers.

DTS

This is a digital sound system developed by Digital Theater Systems for use in cinemas. This system uses 6 audio channels and provides accurate sound field positioning and realistic acoustics. (By connecting a DTS Digital Surround decoder, you can also listen to DTS Digital Surround sound.)

DVD

This refers to a high-density optical disc on which high-quality pictures and sound have been recorded by means of digital signals. Incorporating a video compression technology (MPEG II) and high-density recording technology. DVD enables esthetically pleasing full-motion video to be recorded over long periods of time (for instance, a whole movie can be recorded).

DVD has a structure consisting of two 0.6 mm thin discs, which are adhered to each other. Since the thinner the disc, the higher the density at which the information can be recorded, a DVD disc has a greater capacity than a single 1.2 mm thick disc.

Playback Control

This is recorded on a Video CD (Version 2.0). The scenes or information to be viewed (or listened to) can be selected interactively with the TV monitor by looking at the menu shown on the TV monitor.

Subtitles

These are printed lines appearing at the bottom of the screen, which translate or transcribe the dialogue. They are recorded on the DVD discs.

Time Number

This indicates the playtime, which has elapsed from the start of a disc or a title. It can be used to find a specific scene quickly. (Not all discs permit time search feature to be used. Availability is determined by the disc's manufacturer.)

Title Number

These numbers are recorded on DVD discs. When a disc contains two or more movies, these movies are numbered as title 1, title 2, etc.

Track Number

These numbers are assigned to the tracks which are recorded on Audio CDs. They enable specific tracks to be located quickly.

Video CD

This contains recordings of pictures and sound whose quality is on a par with that of video tape. This player also supports Video CDs with playback control (Version 2.0).

Dolby Digital

Many movie theaters are equipped with 5.1 channel surround systems. This same type of technology is available to you in your home. To enjoy full 5.1 channel surround, your DVD player must be connected to an external Dolby Digital decoder via the digital outputs (either coaxial or optical).

Dolby Pro Logic

This is Dolby Laboratories' technology to decode Dolby Surround encoded programs actively. Dolby Surround programs have four channels of audio (Left, Center, Right and Surround) encoded into a standard 2-channel stereo signal. The rear channel is monaural.

PCM

PCM stands for Pulse Code Modulation and is digital audio.

MPEG

Short for Moving Picture Experts Group. This is an international standard for compression of moving images. On some DVDs digital audio has been compressed and recorded in this format.

DivX®

DivX® is a digital video compression format developed by DivXNetworks, Inc.

Cut this information box out and
keep in a safe place.

If You Forget The Password:

Press 3, 3, 0, 8.
Password will be cleared.

SHARP CORPORATION